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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/941,792	08/30/2001	Ki-Bum Kim	Q65934	7615	
759	90 11/17/2004		EXAM	EXAMINER	
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			FILE, ERIN M		
2100 Pennsylvan Washington, Do			ART UNIT PAPER NUMBER		
3			2634		
			DATE MAILED: 11/17/2004	DATE MAILED: 11/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	" " <u></u>					
	•	Application No.	Applicant(s)			
		09/941,792	KIM, KI-BUM			
	Office Action Summary	Examiner	Art Unit			
		Erin M. File	2634			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days of will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 191	November 2001.				
•	This action is FINAL . 2b)⊠ This action is non-final.					
3)	<u>-</u>					
·	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1,5-9 and 12 is/are allowed. Claim(s) 2-4 and 10 is/are rejected. Claim(s) 11 is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
10)	The specification is objected to by the Examin The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the Examination.	cepted or b) objected to by the le e drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea See the attached detailed Office action for a lis	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmer	at(s) ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice 3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	Paper No(s)/Mail Da				

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Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract exceeds 150 words.

Appropriate correction is required.

2. 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are:

"...to control the equalizer to operate at one mode of a blind mode and a training sequence mode..." (abstract)

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"...a system initial operational time becomes shorter..." (abstract)

"...is worldwidely being commercialized..." ([0004], line 2)

"...for realization of a digital broadcasting..." ([0004], lines 3, 4)

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 2, 3, 4 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2, the recitation, "...comprising the sub-steps of precedently performing filtering for removing NTSC components from the signal of the pre-end of the equalizer..." is unclear in meaning.

Claim 3, the recitation, "...limiting the band of a baseband signal of sub-step (a3) and performing symbol timing recovery from the band limited signal; and p1 (a5) selecting one of the band limited signal of sub-step (a4)..." is unclear. The meaning of or reference to "p1" is unknown.

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Claim 4, the recitation "...controls the equalizer controlling mode into one mode of the equalizer modes including a blind mode and a training mode for the equalizer..." is unclear in meaning.

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Claim 10, The statement "...wherein said switching unit selects the output signal of the matched filter in the case that the NRF operates in an on-state, and selects the output signal of the equalizer in the case that the NRF does not operate in an off-state" is contradictory in nature, as the case of the NRF operating in the on-state is the same as when the NRF does not operate in the off-state.

Appropriate corrections are required.

Claim Objections

- Claim 2, is objected to because of the following informalities:
 Use of acronym NTSC, this acronym must first be defined.
 Appropriate correction is required.
- 6. Claim 11, is objected to as dependent on a rejected Claim.
- 7. Claims 1, 5-9, and 12 are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erin M. File whose telephone number is (571)272-6040. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571)272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

STEPHEN CHIN
SUPERVISORY PATENT EXAMINE
TECHNOLOGY CENTER 2600